

SLUDGE INJECTION TYPE MEMBRANE FILTER APPARATUS

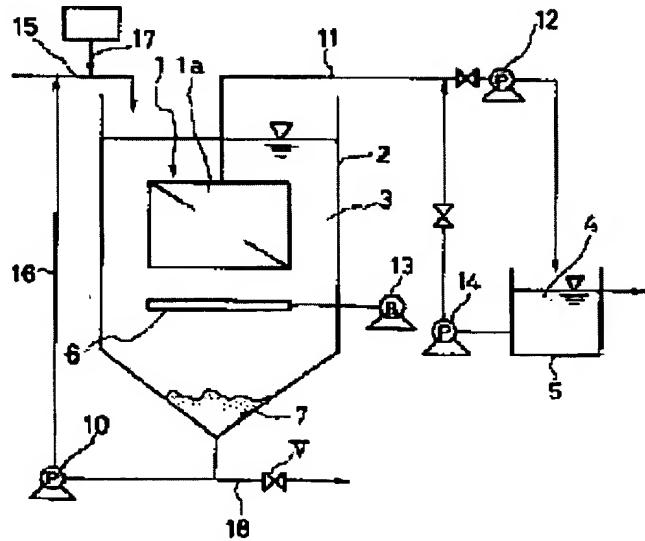
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Inventor: AYA HIDENORI; ANRAKU KOICHI; INOUE TETSUJI;
ARAAUMI JIYUNICHI
Applicant: AYA HIDENORI; MAEZAWA KOGYO
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Abstract of JP8215681

PURPOSE: To keep high transmission flux by preventing a membrane from becoming a clogged state by the penetration of fine particulate suspended matter smaller than the pores of the membrane into a membrane layer in a membrane filter apparatus.

CONSTITUTION: In a membrane filter apparatus allowing raw water 3 introduced into a filter tank 2 to transmit to perform solid-liquid separation by a membrane module 1, a sludge injection type membrane filter apparatus mixing sludge 7 adsorbing suspended matter in raw water 3 and growing the same to a size equal to or larger than the size of the pores of a filter membrane with the raw water 3 is constituted. Concretely, a sludge circulating pump 10 circulating sludge 7 to supply the same is installed to the raw water supply system to the filter tank 2 and an air jet pipe 6 whirling up the sludge 7 sedimented on the bottom part of the filter tank 2 to mix the same with the raw water 3 is laid within the sludge 7. In this case, the membrane module may be an immersion type filter membrane or a casing housing type filter membrane.



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